FORM PTO 144	-			T	o: U.S. D	epartment of Co	mmerce Atty.			M#			Clic	ent Ref.	
FORM PTO 114	· · · · · ·			٠			Bolir	•		-436		SMIT	TH _		
/ INF	ORM	TION DISCL	OSU	RE S	TAT	<b>EMENT</b>	Appl	icant:	SMITH et	al.					
O NUL	9 2003	BY APP	LICA	NT			Appl	n. No.	: 09/832,0	09					
Z JUN	ي منت ا	<i>3]</i>					Filin	g Date	: April 11,	2001					
Die Jun	e 9. <b>20</b>	3	Page	1	of	11			UNKNOW		G/	\U: 2	152		
PAT				<u> </u>	J	PATENT	DOCUME	NTS	<del></del>		<del>1</del>			12. 7. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	
Examiner's	Т	Document	100	l D	ate	T		ame		Cla	22	SubC	lass	Filing C	)ate
Initials*		Number			DD/YY	(Fan			t Inventor)		33	Oubc	JIQ30	(if approp	
QVB	AR	5,740,534			4/98	, -	•	st et al						l	
_ <del></del>	BR	6,266,614 B	1		4/01		•	baugh							
	T 1							on et a					=1/	/ED	
	CR	5,673,306			0/97					-	11	U	=+1	CU	
	DR	6,148,198		1	4/00	ļ	Anders		al			JN 1	0 2	003	
	FR	5,579,372			26/96			trom_						·	
	FR	5,943,399		8/2	4/99		Bannis			<del>- Tec</del>	hnc	lonv	Cer	ter 210	n
	GR	6,101,378		8/8	3/00	<u> </u>	Baraba	sh et	al			787		210	
	HR	6,148,197		11/1	4/00	ļ	Bridge	eseta	L					ļ	
	IR	6,226,529 B	1	5/1	V01		Brun	o et al							
	JR	5,950,130		9/7	/99		Col	ırsey							
	KR	5,974,054			6/99			s et al							
	LR	6,122,503			9/00			aly							
								•	-1					<del> </del>	
CJB.	MR	5,802,492			/98		DeLori		al						
CA(2)	NR!	6,289,373 B			1/01	DOCUME		onno			Т	C 1' -		Tanasta	4!
	-				1, 1				T 61	10 1 01	-	Englis	in	Transla	uon
		Document Number		ate YYYY		ountry	Inventor	Name	Class	SubClas					
-		Mullibel	101101/							s	En	rlosed	No	Enclosed	No
											1		110	LITOIOSCU	1
	OR	-											1		1
	PR			-						0-			111	13337	
	OR -										+-				+
	RR					-1112			-		╁				╁
	SR					- · · -			<u> </u>		┼			<u> </u>	╀
	TR	-									-				1000
	UR					- A			1 7 6					5	
	l <sub>VR</sub> l				<u> </u>			<u> </u>		L	<u> </u>				
OTHE	R (Inclu	iding in <b>this ord</b>	er Aut	hör, T	itle, Pe	riodical N	ame, Date	, Pertir	nent Pages	, etc.)					
	WR										1				
	XR														
	YR												1		
	-										<u> </u>		<u> </u>		
	ZR										1		l		
		0.0									<u> </u>				
	AAR														
							•••		· · · · · · · · · · · · · · · · · · ·		-	-			_
													1		1
	BBR												1		1
Examiner	BBK	- 1 n tr	<del>2</del> —		<del>)</del>		ln <sub>a</sub> .	Cons	idered:	30 ST	$\frac{1}{2}$		0D	1.	<u></u>

RM PTO 4	1PE	,		, T	o: U,S, De	epartment of Com	ımerce	1 * I		M# 0-436		SMI		ent Ket.	
/	Y MOO:	LION DISCL	∆eu	DE 6	TAT	CMENT		Bollman Applicant:				Sivii			
JHM :	กิฉวกกว				IAII	CIVICIAI		Applicant. Applin. No							
Z	A-0 100	S DIAFF	LICA	IN I				Filing Date			11				
(3)	المراجع والمراجع	•			1,	44		Examiner:				GAU: 2	152		
ite. Udin	British P.	5 	Page	2	of	11		L	UNKNO	VVIN		GAU. 2	.132	<del></del>	
	<del>, ,</del>			· · · · ·		PATENT	DOC				1 04			1	
caminer's		Document Number			ate ND/YY	<b>(</b> 5	9 61	Name ame of Firs	st Invanta	٠,	Clas	ss  Sub(	Class	Filing D	
nitials* (US	1.5		<del></del>			(Fam	,			,				(if approp	na
1	AR	6,075,982			3/00		U	onovan et	aı	_	1	SEC		\/FF	<u> </u>
<del> </del>	BR	5,692,037			5/97			Friend			+	TEC		VEC	ナ
+	CR	6,198,431 B		Ĭ .	/01			Gibson			+	IIIN	1 0	2003	
+	DR	6,199,045		T	5/01			Giniger et a			<u> </u>	Т			
+-	ER	6,169,891 B		1	2/01			Sorham et :			<del>  Te</del>	chinolog	IV C	nter 21	00
+	FR	6,181,935 B		1	0/01			ossman et			-				-
+	GR	6,317,594 B			3/01		G	ossman et	al.		<u> </u>			-	_
-	HR	5,768,509			6/98			Gunluk			1				
+-	IR .	6,223,046 B	*		4/01	_	_Har	nill-Keays	et al		+				_
+	JR	6,035,025			7/00	1		_Hanson_				_			
+	KR	6,058,300			2/00			_Hanson_			-				_
_	LR _	5,953,398			4/99			Hill						<del> </del>	
JB	MR	5,797,094		1	8/98			Houde et a	L		<del>                                     </del>			<b>-</b>	
2010	NR	5,822,700			3/98	DOCUME	NTC	Hult et al				<u> </u>		7	
	1 1		<del></del>		·			entor Name	e Clas	Je.	bClas	Engli	511	Transla	uoi
		Document Number	l	ate YYYY		ountry	1110	entor Name	Class		S				
		- Tumboi										Enclosed	No	Enclosed	L
	OR				<u></u>										
	PR														
	OR														
	RR														L
	SR													_	
	TR														
	UR														
	VR														
OTHE	R (Includ	ling in <b>this or</b> d	ler Aut	hor, T	itle, Pe	riodical Na	me,	Date, Perti	nent Pag	es, et	c.)				Τ
	WR														
			and I delice the state												
	XR														
	YR												<b> </b> -		╀
	'														
	ZR												<del> </del>		╁
												<del></del>			+-
	AAR		-												1
										- 17					
aminer	AAR	<u> </u>	<del>/2</del>	Jul	~			Date Cons				大 2			

\_\_\_\_

多	- **		, BY APP	LICA	N I			Appin. No.					<u>:</u>		
18	d man	Document   Number   AR   5,987,323   BR   4,706,275   CR   5,828,740   DR   5,592,535   FR   5,351,235   FR   5,978,685   GR   6,188,752,81   HR   6,173,181,81   IR   5,797,096   JR   5,761,618   KR   5,068,891   IR   6,327,479,81   MR   5,999,811   NR   6,064,875   FORE		Dana [5	<del>,                                    </del>		11	Filing Date Examiner:				GAU: 2	2152		
Jate	CAAPI	Document Number AR 5,987,323 BR 4,706,275 CR 5,828,740 DR 5,592,535 FR 5,351,235 FR 5,978,685 GR 6,188,752 B1 HR 6,173,181 B1 IR 5,797,096 JR 5,761,618 KR 5,068,891 LR 6,327,479 B1 MR 5,999,811 DNR 6,064,875 FO Document Number M Number M COR PR COR COR COR COR COR COR COR COR COR CO		Page	)		<u>L</u>	OCUMENTS	UNKNO	VVIN		3AU. /	2132	<del></del>	
Evan	niner's		Document		Da		PATENTE	Name			Clas	s Subi	Class	Filing I	)ate
					MW/D		(Fami	ly Name of Fire	t Invento	()	0	3 000	Olass	(if appro	
$\mathcal{L}$	iak*	AR	5,987,323		11/1	6/99	ļ	Huotari							
		BR	4,706,275		11/1	0/87_		Kamil					<del>-</del>	7	
	<b>\</b>	CR	5,828,740		10/2	7/98	 	Khuc et al			_H	耳C	EI.	<b>VEL</b>	
	<b> </b>		<u>5,592,<b>5</b>35</u>		1/7	/97	<u> </u>	Klotz				JUN .	1 0	711113	
	_				9/27			Lahtinen							
				1	_11/2		- \ \	Laiho			Tech	<del>n¢log</del> y	<del>/ Ce</del> i	ter 21(	<del>)0-</del>
	<del>  </del>				2/13			Lesley				+		<u> </u>	
			•		1/9/			Losh	<u>-</u>			+		<del> </del>	$\dashv$
					.8/18			Lupien et a			-			<del>                                     </del>	-
					6/2/ _11/2			Lynch et al Marshall			<del></del>		<del></del>	<del> </del>	
			, , ,		12/4			Mikkola					· · ·		$\neg \uparrow$
	1		•		12/7			Molne			·				
$\mathcal{C}$	JB		• •		5/16			Morgan							
					N PA	TENT	DOCUMEN					Engli	sh	Transla	ition
				Dat		C	ountry	Inventor Name	Class	Sub	Clas				
			Number	MM/Y	~~						s			Enclosed	<del></del>
		00			i							-ncioseo	I NO	Enclosed	ILNO
					İ					- <del> </del>			1	<u> </u>	$\dagger \dagger$
		1								Ì					
		TR													
		UR		ļ											
<del></del>	لب ــــ				i	, San - L							<u> </u>		
	OTHER		ing in this ord	er Auth	or, Tit	le, Pe	riodical Nar	ne, Date, Perti	nent Page	es, etc.	)				
		WR			Na analan ka									* ************************************	
-	-	XR				·							-		+
		YR													
		70	<del></del>				<del></del>						_	ļ	1
		ZR													
		AAR						<del></del>			$\dashv$		<del>                                     </del>		+
			_						<u> </u>						
		BBR													
	L	$\cap$ $\square$									1		1	1	1 1

FORM PTO-144		•			To: U.S. De	partment of Co	mmerce	Atty.		M#				nt Ref.	
OIPE								Bollman		)-436		SMIT	Γ <del>H</del>		
INF	ON	IATION DISC			STAT	EMENT			SMITH et						
JUN 0 9 20	13 S	BY AP	PLICA	.NT					.: 09/832,0						
שני ט אונוע	<u> </u>	• •							e: April 11,						
Date: Jun	e <b>,6</b> 5/20	003	Page	4	of	11		Examiner:	UNKNOV	VN		SAU: 2	152		
BAINEN					U.S.	PATENT	DOC	UMENTS							
Examiner's		Documen	ıt .		ate	<u> </u>		Name	·· · · · · · · · · · · · · · · · · · ·	T	Class	SubC	Class	Filing D	ate
Initials*		Number		MM	אאיטט.	(Far	nily N	ame of Fire	st Inventor)					(if approp	
CUS	AR	6,249,744	B1	6/	19/01			Morita_							
	BR	6,070,06	7	5/3	30/00		· N	lguyen et a	aLa				است		
	CR	6,049,71	1	41	11/00			Nilsson			H	LC	E	VEL	)
	DR	6,149,35	3	11/	21/00			Nilsson							
	ER	5,774,53	3	6/3	30/98			Patel				hnu	1 0	2003	
	FR	6.396.91	3	5/2	28/02			Perkins II	<u></u>		Tool	مامامد	т. С	nter 21	لمما
	GR	6,208,854		1	77/01			Roberts et a			1001		in Á	IIICI ZT	VV
	HR	5,905,736			18/99			Rohen et a							
	IR	5,628,05			6/97			Salin							
	JR	5,682,600			28/97			Salin							
	KR	5,787,35		F	28/98			Salin							
	LR	5 946 629		I	31/99		ç	Sawyer et a							
	MR	5,920,82		1	6/99			azholtz et							
CUB	NR	5,767,79			6/98			Schaphors							
						DOCUME					T	Englis	sh .	Translat	tion
		Document	Da	ate	C	ountry	Inve	entor Name	e Class	SubC	las		,		İ
		Number	MM/	/YYY		-				s	L			[	
			+	<del></del> -						+	<del> </del>	nclosed	No	Enclosed	No
	OR		+		-		<u> </u>			<del> </del>	-		$\sqcup$	<del></del>	igspace
	PR		+		<del> </del>				ļ	<del> </del>			$\sqcup$	· · · · · · · · · · · · · · · · · · ·	igspace
	OR		<del>                                     </del>		<del> </del>					<b></b>			$\sqcup$		igspace
	RR	<del></del>	-			<del></del>				<b>_</b>				ļ	$\sqcup$
<u> </u>	SR				<del>                                     </del>					ļ					4-4
	TR		-		<u> </u>								$\sqcup$		$\coprod$
	UR				<del>                                     </del>		ļ			1			igsqcup		Ш
	VR				<u> </u>		L	······································		<u> </u>			Щ		igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup igsqcup
OTHE		luding in this or	der Aut	hor, 1	itle, Pe	riodical N	ame, l	Date, Perti	nent Page:	s, etc.)				ı	
	WR									-					
	VC														1
	XR														
	YR				<del></del> -						+		$\vdash\vdash$	·	$\vdash \vdash$
	```													ı	
	ZR						7						<del>                                     </del>		$\vdash \vdash$
														ı	
1	AAR														П
															Ш
	BBR							_	*		ļ			_	
Examiner	7	1 0 18	hr. 1	, 7			<del></del> -1	Data C	idorad			T	<u></u>		Щ
*EXAMINE	P. M	A STANCE	<del>,,,,,</del>	سوا	A	nation in the c		Date Cons			250		200		
		Initial if citation cons									nrougi	i diadon	11 (10)	,,,	

	<b>NEO!</b>	TAM	ION DIS	CLOSU	JRE S	TATEMENT			SMITH et						
ט אט		9	BY AF	PPLICA	NT				: 09/832,0						_
	6,7						1		e: April 11,		- Tz	2014	150		_
DE PARA	bome 9	, 2003		Page	5	of 11			UNKNOV	VN		SAU: 2	152		=
			Docume	nt.	Da	U.S. PATENT	DOC	Name		Т	Class	SubC	lace	Filing D	 1 s
Examine Initials			Numbe		MM/D		nily Na		t Inventor)		Olass	Joubo	1033	(if approp	
αV		R	5,930,70		7/27			Skog							_
	В	R	5,794,14		8/11	/98		anttila et a	<u> </u>			ļ			_
	C	R	5,806,00	00	9/8	/98		Vo et al.			B	#O	=#	/ED	۲
	ם	R	6,122,5	20	9/19	2/00		Want et al			11	401	_!	VLU	<i>'</i>
	E	R	6,249,680	) B1	6/19	0/01		Wax et al				JUN 1	0	2003	_
	E	R	6,081,50	08	6/27	//00		West et al			Task		_		_
<u> </u>	_  G		5,946,6	30	8/31	/99	V	Villars et a			recn	nplogy	Çe	nter 210	Ц
<u>CU(</u>			6,205,330	) B1	3/20	<u> </u>		Winbladh				-			_
					<del> </del>		<u>-</u> -					+			-
	<u> </u>				+		-					+			-
- Cot	-		5,797,0		8/18			Clise et al				+			-
-	11		5,343,49		8/30			Karimullal	1				-		-
( )F	M		5,479,4		12/2			Grimes				<del> </del>			_
	<u>N C</u>	<u> </u>	5,519,4		5/21 GN PA	TENT DOCUM	ENTS	Rickley et a	<u>11</u>			Englis	h	Translat	=
		$\top$	Document		ate	Country		entor Nam	e Class	Sub	Clas				
	ļ	'	Number		YYYY					s	- 1				
												nclosed	No	Enclosed	1
	<del> 0</del>	1						·		-	-				$\frac{1}{1}$
	P														+
	<u> </u>			<del></del>			<u> </u>	<del> </del>			- +				1
	R					<u> </u>				+	-+				$\frac{1}{1}$
	S						ļ				-				ł
	- 1	R					<b>†</b>				_				1
	u			<u> </u>			<del> </del>				$\neg \uparrow$				†
ОТ			ng in this c	order Au	thor, Ti	tle, Periodical N	lame, I	Date, Perti	nent Page:	s, etc.)					Ì
	<del>T</del> w		-	·		<u>.</u>	-								
			an and and Principles and American												
	X	R													
	-   YI	<del>-  </del>					_				_				$\frac{1}{1}$
	''	``										}			
	Z	R			····									_	†
															4
	Α.Δ	R													
	BE	IR													+
			4						<u> </u>						
xamin	or T	1	KL I	1	Ine.	_ /		Date Cons	idorod:	21 3	1500	- 20	1//	1	_

FORM PTO-1449		•		T	o: U.S. De	partment of Com				M#				nt Ref.	
O P E	À		÷	· 			Ŀ	Bollman		-436		SMI	ГН ———		
1144	<b>.</b> .\	TION DISCL			STATE	EMENT	L		SMITH et						
DOS e O HUL	ابي ۵	BY APP	LICA	NT					: 09/832,0						
JUN "		,	_	<u> </u>	1.	44		•	: April 11 UNKNOV			GAU: 2	152		
Date: Jun	e 9./200.	) <del></del>	Page	Ь		PATENT [	1		ONTRIVO			GAU. 2	132		_
						PATENIL		Name	<del> </del>	· · · · · ·	Clas	o leuk	Class	Filing D	) oto
Examiner's Initials*		Document Number			ate DD/YY	(Fami	ilv Na		t Inventor)		Cias	s Subi	∍iass	tif approp	
(JB	AR	5.535.434			9/96		•	ddoway et							
1	BR	4,891,638			2/90			Davis							
$\rightarrow$	CR	5,070,329		12/	3/91			Jasinaki			P	#C		VED	<u> </u>
	DR	5,068,656		11/2	6/91			Sutherland	L			<del></del>		<del> </del>	
	ER	5,119,104		6/2	2/92	<del></del>		Heller				-\UN	10	<u> 2003                                   </u>	
	FR	5,177,478		1/5	5/93			Nagai et a	L		Tool	20000		h 040	
	GR	5,363,425		11/	8/94			Mufti et al	<del></del>		IECI	mplog	y ce	nter 210	<u> </u>
	HR	5,387,993			7/95			Heller et al		<del>-  </del>					
	IR _	5,485,163			6/96			Singer et a	<u> </u>			-			
	JR	5,479,408			26/95			Will							
-	KR	5,497,149			5/96			Fast							
	LR	5,513,243		1	0/96 24/96			Kage Will	. <u>.</u> .,						
(USB	MR NR	5,588,009 5,604,486		I .	8/97			Lauro et al							
100	TINK		OREIC			DOCUMEN		<u>Lauio et ai</u>	<del>*************************************</del>		T	Engli	sh	Translat	tion
		Document	<del></del>	ate	<u> </u>	ountry		entor Name	Class	Sub	Clas	Ū			
		Number	MMA	YYYY						s			,		
					<del> </del>				_	+	[	Enclosed	No.	Enclosed	No
	OR		1							┼			+		╁
	PR				<b> </b>					+-	$\dashv$		<del> </del>	<u> </u>	╁
	OR	P. M. C.			<u> </u>					<u> </u>					t
<del></del>	RR	····			<u> </u>			<del></del>		+					$\dagger$
	SR TR		<del> </del>		1					1					T
	UR		ļ					<del></del>		<b>-</b>			<del>                                     </del>	<del></del>	$\top$
									l l	1					
	VR									-	$-\dagger$				_
OTHE	VR	ling in this ord	ler Aut	hor, T	itle, Pe	riodical Nar	me, l	Date, Perti	nent Page	s, etc.)					
OTHE	VR	ling in this ord	ler Aut	hor, T	itle, Pe	riodical Nar	me, (	Date, Perti	nent Page	s, etc.)					
OTHE	VR R (Includ	ling in <b>this or</b> d	ler Aut	hor, T	itle, Pe	riodical Nar	me, (	Date, Perti	nent Page	s, etc.)					
OTHE	VR R (Includ	ling in this ord	ler Aut	hor, T	itle, Pe	riodical Nar	me, (	Date, Perti	nent Page	s, etc.)		and the same that the same and			
OTHE	VR R (Includ	ling in <b>this or</b> d	ler Aut	hor, T	itle, Pe	riodical Nar	me, l	Date, Perti	nent Page	s, etc.)				No. and the contract of	
OTHE	VR R (Includ WR	ling in this ord	ler Aut	hor, T	itle, Pe	riodical Nar	me, (	Date, Perti	nent Page	s, etc.)					
OTHE	VR R (Includ WR	ling in this ord	ler Aut	hor, T	itle, Pe	riodical Nar	me, (	Date, Perti	nent Page	s, etc.)					
OTHE	VR R (Includ WR XR YR	ling in this ord	ler Aut	hor, T	itle, Pe	riodical Nar	me, (	Date, Perti	nent Page	s, etc.)					
OTHE	VR R (Includ WR XR YR	ling in this orc	ler Aut	hor, T	itle, Pe	riodical Nar	me, (	Date, Perti	nent Page	s, etc.)					
OTHE	VR R (Includ WR XR YR ZR	ling in this orc	ler Aut	hor, T	itle, Pe	riodical Nar	me, I	Date, Perti	nent Page	s, etc.)					
OTHE	VR R (Includ WR XR YR	ling in this orc	ler Aut	hor, T	itle, Pe	riodical Nar			nent Page						

FORM PTO-1449		•		Т	o: U.S. D	epartment of Co		1		V#		ļ.,		ent Ref.	
OIPE				•				Bollman		-436		SMIT	H_		
INF	OKNY	TION DISCL			TAT	EMENT			SMITH et						
NA 0 8.	mas	BY APP	LICA	.NT					.: 09/832,0						
JUN 0 3	انغ				_				e: April 11,						
ate: June	= 9 <b>,29</b> 03		Page	7	of	11		Examiner:	UNKNOW	'N	G.	AU: 2	152		
S TRAP	W				U.S	. PATENT	DOC	UMENTS							
Examiner's		Document		D	ate			Name		CI	ass	SubC	lass	Filing D	ate
Initials*		Number		MM/I	אאים כ	(Fan	الا براند	ame of Fig	st Inventor)			├		(if appropr	iate)
(1)13	AR	5,606,313		2/2	5/97			Allen et al				<del> </del>			
	BR	5,614,890		_3/2	5/97			Fox				<del> </del>			
	CR	4,494,119		1/1	5/85	ļ		Wimbush			-	<b>1</b>	~-	7	_
	DR	4,651,156		3/1	7/87			Martinez				ßE(	」上	<u>                                      </u>	
	ER	4,891,650		1/2	2/90			Sheffer				<u> </u>	*+	0 1000	
	FR	5,014,206		5/2	7/91		S	cribner et	al			301	IA T	0 2003	
	GR	5,055,851		10/	8/91			Sheffer			Tag	hnok	an I	<del>Center 2</del>	<u> A CC</u>
	HR	5,208,756			4/93			Song				1	-9y \	Deriter 2	.105
	IR	5,218,367			3/93			Sheffer et a	al						
	JR	5,223,844			9/93			Mansell et a							
	KR	5,289,527	•		2/94			edemann							
	LR	5,293,642	_		3/94			Lo							
1	MR	5,379,451			3/95		Ns.	kagoshi e	l al						
MA	NR	5,347,568			3/94			Moody et a							
	LINIX		OREIC			DOCUME		WILLIAM EL C	<u> </u>			Englis	ih	Translati	ion
		Document		ate	<del></del>	Country		entor Nam	e Class	SubCla	s	•		l	
		Number		YYYY			****			s	L				
											Er	closed	No	Enclosed	No
	OR				ļ						<b>_</b>		<u> </u>		_
	PR									ļ	_		Ь—		<u> </u>
	OR									ļ	4		<b>↓</b>		
	RR		<u> </u>		ļ						$\perp$		L		<u> </u>
	SR												<u> </u>		
	TR														_
	UR														
	VR														
OTHE	R (Includ	ling in this ord	er Aut	hor, T	itle, P	eriodical Na	ame,	Date, Perti	inent Pages	, etc.)					
	WR								-		1				
														artisa silatar artisi samananan	
	XR														
	<del></del>										_		<u> </u>		
	YR														
	ZR							· · · · · · · · · · · · · · · · · · ·			+				<del> </del>
	ZK												]		
	AAR	<del>.</del>		-							+		├		-
												1	1		
	BBR	····									+		$\vdash$		
	1	L_O_L	2	···										<u></u>	
Examiner	Ch	yotal )	-)W	ma	~			Date Cons	sidered:	30 Si	517	t :	207	04	
*EXAMINE		ial if citation consid							PEP § 609. Dr	aw line thr			if not	in	
L		formance and not	conside	red In	clude co	ppy of this for	m with	next commu	nication to Apr	licant					

FORMPTO	P492~	· ·	•				epartment of Co	mmerce	Atty.		M#				lient R	ef.	
<b>∖</b> 0,		6	TION DISCL BY APP		•				Bollman	20	-436		\$	SMITH		_	
/ II	NFQF	MA	TION DISCL	.OSU	RE S	TAT	<b>EMENT</b>		Applicant:	SMITH et	al.						$\Box$
ИШ	0 8 500	(بع ١	BY APP	LICA	NT				Appln. No	.: 09/832,0	09						$\neg$
2		ξ./							Filing Date	e: April 11,	2001						
Dist	luna 🔐	2003		Page	8	of	11			UNKNOV			GA	U: 2152	2		$\neg$
0000	RAPE				<u> </u>	<u> </u>	. PATENT	DOC	<u></u>	<del></del>				<del> </del>	7,3,		
	-1-1		Document		<u> </u>	ate	1777		Name			Clas	e l	SubClas	s Fili	ing Da	te
Examin Initial		1	Number			DD/YY	(Fan	nilv N		st inventor)		Clas		Jubblas		oprooda	
$\alpha i$	3 AF	$\overline{}$	5,374,936			0/94			Feng	,					T		
١	BI	1	5,374,930			4/95			ruckert et	ol.							
			•		I					AL							
	CI		5,394,158			8/95_	<u> </u>		Chia			R	=(	JEIV	厅	n	
	DI		5,398,190	••		4/95_	<del> </del>		Wortham	<del></del>			=	<u> </u>		<u> </u>	$\dashv$
	FF	₹	5,406,614		4/1	1/95			Hara				<del>JU </del>	V107	2d03		$\dashv$
<u> </u>	E	₹	5,423,076		6/£	1/95		_We	stergreen	el al		1	-			<del></del>	$\dashv$
	GI	3	5,432,841		7/1	1/95	ļ		Rimer		- 1	ecnn	Оф	gy Cer	H <del>er 2</del>	<del>100 -</del>	$\dashv$
	Щ	₹	4,952,928		B/2	8/90			Carroll et a	ıl			_	<del></del>			_
l l	JE		5,214,789		5/2	5/93.			George				$\perp$				_
	J.IF		5,266,944		11/3	10/93			Carrol et a	ıL							
	KI		5,325,302			8/94			Izidon et a								- 1
	I F		5,361,212			1/94	1		Class et a								
_			•					1,					寸		$\top$		ヿ
CVA	M		5,381,338			0/95	<del> </del>		Vysocki et				$\dashv$	<del></del>	_		一
<u> </u>	<u> </u>	<u> </u>	5,396,227	OPE		7/95 TENI	DOCUME		Carroll et a	<u> </u>				English	+ 7,	anslatio	=
	<del> </del>	· 1							ontos Nam	o Closs	I C is	Clas		English	"	ansiauo	"
			Document Number		ate YYYY	'	Country	Inv	entor Nam	e Class		Clas s					
			Number	1411417		Ì							Enc	losed N	o Enc	losed	No
		$\Box$															
		1															
	PI																
											+				1	$\rightarrow$	ᅦ
	RI					├					+-			-+	+	$\rightarrow$	$\dashv$
	SI	₹									-		-			-+	$\dashv$
		₹			_										-	111111111111111111111111111111111111111	-
	u	3															_
				<u> </u>		<u> </u>					<u> </u>						_
OT	HER (	nclud	ing in <b>this or</b> d	er Auf	hor, T	itle, P	eriodical N	ame,	Date, Pert	inent Page	s, etc.	.) .					
	W	R															
Pine												manur Faran (S)	- Garantina				
	XI	₹															
		$\perp$															
	YI	₹													İ		
		_ _															
	ZI	₹															
	_	_	·														
	AA	R															
	-											-			-		_
	BB	K	1 0	_													
Examir	ner /	h .	at 1/1	201	ries	1			Date Con	sidered:	20	G-	- /-	<u> </u>	1		_
*EXAM		M	al if citation consid			/ nr ==1 :	sitation is in -	on/				Se through	Y	itation 14	<u> </u>		-
-//	· · · · · · · · · · · · · · · · · · ·		and citation considerance										9,, 0		iot III		

ORM PTO-1448		•		1	To: U.S. 0	epartment of Co	mmerce			M#				ent Ref.	<u>.</u> .
TPE	4			•				Bollman		)-436		SM	IITH		
ار INF	ORMAI	ION DISCI			STAT	EMENT			SMITH et						
o e o HUL		BY APP	LICA	NT					.: 09/832,0						
70M 2					٦	<u> </u>	1		e: April 11,			0.414	0450		
ate: Jun	e 9. 2003		Page	9	of	11		<u> </u>	UNKNOV	VN		GAU:	2152		
O TRAC	,					. PATENT	DOC			- т					
xaminer's		Document			ate DD/YY	(500	aile e Ni	Name	st Inventor)		Clas	ss   Su	bClass	Filing D	
Initials*	1.5	Number				(Fair	шул		<u>zranksmir</u> i			_		(ii sphioti	ШАЦ
142	AR. BR	5,418,537 5,434,789			3/95 8/95			Bird Eraker et a							
-	CR	•			24/95	1		Hoshen	·						
<del>                                     </del>	DR	5,461,390 5,470,233		1	28/95 28/95		E.	chterman e			RE	CI	-17	FD	
	ER	5,485,161			6/96			Vaughn_	<u> </u>						
	FR	5,488,563			0/96			hazelle et	al .				0 20		
	GR	5,508,931			6/96			Snider		Te	Chn	olony	Conta	2100	
	HR	5,515,287			7/96		L.	akoyama e			MILLI	MU BY	<del>UDINE</del>	2100	
	IR	5,532,690		1	2/96			Hertel	L-AI,						
	JR	5,539,398			3/96			Hall et al.							
	KR	5,552,772		100	3/96			Janky et a							
	LR	5,568,119		1	22/96			Schipper et							
1	MR	5,574,648			12/96			Pilley	<i>(</i> 11						_
CIB	NR	5,606,850			4/97	†		Nakamura	`						
	TINIZ		OREI	GN PA	TENT	DOCUME	NTS					En	glish	Translat	tion
		Document	<del></del>	ate		Country	-	entor Name	e Class	Sub	Clas				
		Number	MM/	YYYY		•				1	5				
	<del>                                     </del>		-		-					1		Enclos	ed No	Enclosed	HN
	OR		ļ		ļ					-			_	ļ	╀
	PR		<del> </del>		+					+-				<del> </del>	╀╌
	QR		<u> </u>		+								_	<u> </u>	╀
	RR		-		-	· · · · · · · · · · · · · · · · · · ·			_	-				<del>                                     </del>	╀
	SR		<del> </del>		<del> </del>					1				<del> </del>	╀
	TR		<del> </del>		<del>                                     </del>					+			<del></del>	<u> </u>	╁
	UR		<del> </del>		┼─					+					╀
OTHE	D (In alud	ng in <b>this or</b> d	Hair Auit	bor T	itio (D	oriodinal N	<u>l</u>	Data Barti	neet Occo	n eta '	`		<del></del>		╀
OTHE	WR	ing in this ort	Jei Au	uioi, i	ille, F	enouical iv	arrie,	Dale, Ferti	Herit Fage	S, E.C.,	<u>)</u>				
	VV/\														-
·	XR		• • •												T
	YR														Τ
														<u> </u>	1
	ZR														1
														<del> </del>	╀
	A A C													1	
	AAR											ı			F
														<del> </del>	Т
	BBR														
xaminer		otal it	(34.	rne	N			Date Cons	sidered:	30	SE	not	200	4	

FORM PTO-1449				т	o: U.S. Do	epartment of Co	mmerce	Atty.	1	M#			Clie	nt Ref.	0
PEX				•				Bollman	20	-436		SMI	TH		
INF	ORM	IATION DISCL	OSU	RE S	TAT	EMENT		Applicant:	SMITH et	al.					
ETECT & O HU	lix	BY APP						Appln. No	: 09/832,0	09					
DH O 3	ğ:				•			Filing Date	e: April 11,	2001					
Date: Jup	/	ากร	Page	10	of	11			UNKNOW		G	AU:	2152		
B TRAIN	70, -		- ago			PATENT	DOC					<del></del>	····		<del></del>
	· · · · · ·	D				TAILIN		Name	···	Τ.	Class	Sub	Class	Filing C	Cate
Examiner's		Document Number			ate DD/YY	/Ean	aily N		st Inventor)	١٠	<i>J</i> 1855	Sub	Class	(if approp	
Initials*	00	-			1/97	\\.	•	Gudat et a						, - , , - ,	•
1	AR	5,610,815		1				Gudat et a							
	BR	5,615,116		1	5/116						DE		=1\	/FD	,
<del> </del>	CR	5,621,793			5/97			ednarak et			nc		<u>= 1 V</u>		
	DR	5,235,630		8/1	0/93	<del> </del>		Anodey et :				IUN 1	<u> </u>	บบร	
	ER	5,543,776		8/0	6/96		L'e	sperance e	et al	<u> </u>		ψ. v	. 0 2	003	
	ER	5,633,912		5/2	7/97			Tsoi		Te	<del>-cho</del>	dloos	<del>r Ce</del> n	ter 210	<b>^</b>
	GR	5,454,024		9/2	6/95			Lebowitz				روحر		210	
	HR	5,334,974	***	8/2	2/94			Simms et a	ıl			<b>_</b>			
	IR	5.299.132		3/2	9/94			Wortham							
	JR	5,193,215		3/9	9/93			Olmer							
	KR	5,144,283			1/92			Arens et a	 L					l	
	LR	5,555,286			0/96			_Tendler	<del></del>			1			
-	T	, ,				<del> </del>		Grimes				†		<u> </u>	
C)B	MR	5,388,147			7/95	-				-		<del>                                     </del>			
(D)	NR	5,081,667	OBEI	1_1/1	4/92	DOCUME	NITC	Drori et al		L	- 7		ieb	Transla	tion
·		<u></u>		- 1		1 1			- Class	I C L C.		Engl	i3II	Halisia	uon.
		Document Number	l .	ate YYYY	1	ountry	Inv	entor Nam	e Class	SubCl	las				
i		Number	IVIIVI							"	F	nclose	d No	Enclosed	1 No
												1101000			
	OR.														
	PR				+								1		1
	OR.				+						$\dashv$		+-	<del></del>	+-
	RR.		ļ		+					<del>                                     </del>	-+		+	<del></del>	+
	SR		<u> </u>		-								+		+-
	TR			٠	+								+		+
	UR		ļ				ļ	<del></del>		-			-		+-
	VR.		<u>.                                    </u>		<u>l</u>		L		l	<u> </u>			<del> </del>	<u> </u>	<del> </del>
OTHE		luding in this ord	er Aut	hor, T	itle, Pe	eriodical N	ame,	Date, Pert	inent Pages	s, etc:)					
	WR														
	XR														
													<del> </del>	<u> </u>	4—
	YR														
											-+		-		+-
	ZR										İ				
	0.00							· · ·			-+		+	<u> </u>	+-
	AAR														
	DDD								···		-+		+-	ļ	+
	BBR	/	2												
Examiner	TK	10 1/	1	0	<del></del>			Date Con	sidered:	30	5	T-	201	14	
*EXAMINE	$\frac{1}{R}$	Lettal if sitation consider	~~~~	hothar		itation in in -	onfo	<u> </u>							
-VC/MIIAE	-, \.	Initial if citation consideration									oogi	. u.du		. 141	

OIPE	<b>GRMA</b>	TION DISCL			TAT	EMENT			SMITH et						
UH 0 9 200	3 ~	BY APP	LICA	NT					: 09/832,0						_
UN o 3 Day	<u> </u>			,	_		_		e: April 11,		-T				_
Date: Jun	<b>9/20</b> 03	3	Page	11		11	<u></u>	<u> </u>	UNKNOW	N	G/	AU: 2	152	<del> </del>	
& TRATICIA	-				U.S	. PATEN	T DOC	UMENTS							
Examiner's		Document			ate			Name		CI	ass	SubC	lass	_	
Initials*		Number		[ · · · · · ·	אאמכ	(Ea	mily N		st Inventor)			<del> </del>		(if appropr	a
19P	AR	1,103,073			4/14			_O'Connel				<del> </del>			_
	BR	5,043,736			7/91			Darnell et a					\ / [		_
NA	CR	5,161,180			3/92			Chavous				E	٧t	<del>-</del>	
	DR	5,239,570		8/2	4/93			Koster et a	l		1111	10	วกก	3	
	ER		-			<del> </del>	··				JUI.			J	
	ER			l				<del></del>		Tech	nolo	av Ce	ente	2100	
	GR			<del>                                     </del>					<del></del>	-1-		-			
	HR									<del>    -  </del>		<del></del>			
<del></del>	JR JR		_												_
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	KR														
,	IR.					1									
	MR					†			·····					-	-
	NR					<del></del>									
	I INIX I	F	OREIC	SN PA	TENT	DOCUM	ENTS	, , , , , , , , , , , , , , , , , , ,				Englis	h	Translat	io
	ПТ	Document	Da	ate	С	ountry	Inv	entor Nam	e Class	SubCla	is				
•		Number	MM/\	<b>/</b> YYY		,				s	_				_
	-		-		+		+				Er	closed	No	Enclosed	Η
	OR		-		<del> </del>		+-			1	+		<del>                                     </del>		t
	PR				<del> </del>		╁┈	<u>-</u>		<del> </del>	$\top$				t
· · · · · · · · · · · · · · · · · · ·	OR		-		<del>                                     </del>		_			<b></b>	$\top$				t
	RR			<del></del>			<del> </del>		-	<del> </del>	_				t
	SR				<del> </del> -		┪								t
	TR	· · · · · · · · · · · · · · · · · · ·			+		+				$\top$				t
	UR VR				T		1			<u> </u>	$\top$				†
OTHE		ding in this ord	er Aut	hor. T	itle. Po	eriodical I	Vame.	Date. Pert	nent Pages	etc.)	+				t
	WR	.3			7.7			7	-3	·	$\dashv$				
											土				1
	XR														
											$\perp$		<u> </u>		+
	YR														
	ZR	· · · · · · · · · · · · · · · · · · ·							<del> </del>		+				╀
	- '														
	AAR	<u> </u>					· · · · · · · · · · · · · · · · · · ·				_				T
	BBR	·									+				$\dagger$
											S			I	1
Examiner		1-6-1-6	) WIG		<del></del>			Deta Or	sidered: 😤	V 0	1-				<u></u>